

Refine Search

Search Results -

Terms	Documents
L12 and L13	6

Database:

US Pre-Grant Publication Full-Text Database
 US Patents Full-Text Database
 US OCR Full-Text Database
 EPO Abstracts Database
 JPO Abstracts Database
 Derwent World Patents Index
 IBM Technical Disclosure Bulletins

Search:

L14

Search History

DATE: Wednesday, October 20, 2004 [Printable Copy](#) [Create Case](#)

Set Name Query

side by side

Hit Count Set Name

result set

DB=TDBD; PLUR=YES; OP=OR

<u>L14</u>	l12 and l13	6	<u>L14</u>
<u>L13</u>	(antenna\$1 and scan\$4) or aesa\$1	17	<u>L13</u>
<u>L12</u>	radar\$1	72	<u>L12</u>

DB=USOC; PLUR=YES; OP=OR

<u>L11</u>	l10 not l5	144	<u>L11</u>
<u>L10</u>	l9 and steer\$3	144	<u>L10</u>
<u>L9</u>	l8 and beam\$1	1578	<u>L9</u>
<u>L8</u>	l6 and l7	2103	<u>L8</u>
<u>L7</u>	(antenna\$1 and scan\$4) or aesa\$1	6104	<u>L7</u>
<u>L6</u>	radar\$1	10692	<u>L6</u>

DB=PGPB,USPT,EPAB,JPAB,DWPI; PLUR=YES; OP=OR

<u>L5</u>	l4 and steer\$3	113	<u>L5</u>
<u>L4</u>	l3 and beam\$1	900	<u>L4</u>
<u>L3</u>	l1 and l2	1578	<u>L3</u>
<u>L2</u>	(antenna\$1 and scan\$4).ti,ab. or aesa\$1.ti,ab.	5656	<u>L2</u>
<u>L1</u>	radar\$1.ti,ab.	42794	<u>L1</u>

Best Available Copy

END OF SEARCH HISTORY

Gregory, Bernarr

From: PLUS
Sent: Wednesday, October 20, 2004 11:15 AM
To: Gregory, Bernarr
Subject: PLUS Results for 10655554

Here are the PLUS search results for 10655554.

This search was prepared by the staff of the Scientific and Technical Information Center, SIRA. If you have questions or comments about this search, please reply via email to PLUS@uspto.gov.



10655554_QUAL.txt



10655554_LIST.txt



10655554_WEST.txt



10655554_EAST.txt



10655554.east



10655554_CLS.txt



10655554_CLSTITLES.t
xt



10655554_WDS.txt

10655554_QUAL

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10655554_QUAL

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4562403 53

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PLUS Search Results for S/N 10655554, Searched October 20, 2004

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

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10655554_CLS

Most Frequently Occurring Classifications of Patents Returned
From A Search of 10655554 on October 20, 2004

Original Classifications

5	342/91
3	340/904
3	342/43
3	343/700MS
3	455/327
2	324/76.82
2	324/96
2	330/286
2	333/165
2	333/17.2
2	340/932.2
2	342/157
2	342/174
2	342/201
2	342/37
2	342/373
2	342/417
2	342/70
2	343/701
2	343/909

Cross-Reference Classifications

7	342/194
5	340/435
4	180/169
4	340/901
4	342/201
4	343/700MS
3	235/411
3	333/247
3	340/436
3	340/903
3	342/162
3	342/368
3	343/767
3	455/330
2	89/1.56
2	89/1.819
2	250/349
2	257/775
2	327/195
2	330/297
2	333/117

10655554_CLS

2 333/161
2 340/539.1
2 341/120
2 342/112
2 342/125
2 342/128
2 342/149
2 342/153
2 342/154
2 342/160
2 342/192
2 342/193
2 342/195
2 342/196
2 342/417
2 342/444
2 342/80
2 342/91
2 343/742
2 343/846
2 343/872
2 349/139
2 367/909
2 385/14
2 434/2
2 455/78
2 708/816

Combined Classifications

7 342/194
7 342/91
7 343/700MS
6 340/435
6 342/201
4 180/169
4 340/901
4 342/417
4 342/43
3 235/411
3 324/96
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10655554_CLS

3 342/162
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10655554_CLS

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2 343/872
2 343/909
2 349/139
2 349/202
2 367/909
2 385/14
2 434/2
2 455/78
2 708/816

10655554_CLSTITLES

Titles of Most Frequently Occurring Classifications of Patents Returned

From A Search of 10655554 on October 20, 2004

7 342/194 (0 OR, 7 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/175 WITH PARTICULAR CIRCUIT
 342/194 .Complex signal (in phase and quadrature)

7 342/91 (5 OR, 2 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/73 RETURN SIGNAL CONTROLS RADAR SYSTEM
 342/89 .Receiver
 342/91 ..Gain or threshold

7 343/700MS (3 OR, 4 XR)
 Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS
 343/700R ANTENNAS
 343/700MS .Microstrip

6 340/435 (1 OR, 5 XR)
 Class 340 : COMMUNICATIONS: ELECTRICAL
 340/425.5 LAND VEHICLE ALARMS OR INDICATORS
 340/435 .Of relative distance from an obstacle

6 342/201 (2 OR, 4 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/175 WITH PARTICULAR CIRCUIT
 342/200 .For frequency modulation
 342/201 ..Combined with pulse modulation

4 180/169 (0 OR, 4 XR)
 Class 180 : MOTOR VEHICLES
 180/167 WITH MEANS FOR CONTROLLING OPERATION RESPONSIV

E
 TO ELECTROMAGNETIC RADIATION, MAGNETIC FOR
 CE, OR SOUND
 WAVES RECEIVED FROM SOURCE, OR REFLECTED F
 ROM OBJECT OR
 SURFACE, LOCATED APART FROM VEHICLE
 180/169 .Radiation, force, or waves reflected from
 external object or surface

4 340/901 (0 OR, 4 XR)

10655554_CLSTITLES

Class 340 : COMMUNICATIONS: ELECTRICAL
340/901 EXTERNAL CONDITION VEHICLE-MOUNTED INDICATOR O

R

ALARM

4 342/417 (2 OR, 2 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
342/350 DIRECTIVE
342/385 .Beacon or receiver
342/417 ..Direction-finding receiver only

4 342/43 (3 OR, 1 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
342/42 RADAR TRANSPONDER SYSTEM
342/43 .Combined with primary radar system

3 235/411 (0 OR, 3 XR)
Class 235 : REGISTERS
235/400 ORDNANCE OR WEAPON SYSTEMS COMPUTER
235/411 .With target tracking means

3 324/96 (2 OR, 1 XR)
Class 324 : ELECTRICITY: MEASURING AND TESTING
324/76.11 MEASURING, TESTING, OR SENSING ELECTRICITY, PE

R

SE

324/96 .Using radiant energy

3 333/247 (0 OR, 3 XR)
Class 333 : WAVE TRANSMISSION LINES AND NETWORKS
333/245 LONG LINE ELEMENTS AND COMPONENTS
333/246 .Strip type
333/247 ..Semiconductor mounts

3 340/436 (0 OR, 3 XR)
Class 340 : COMMUNICATIONS: ELECTRICAL
340/425.5 LAND VEHICLE ALARMS OR INDICATORS
340/436 .Of collision or contact with external object

3 340/539.1 (1 OR, 2 XR)
Class 340 : COMMUNICATIONS: ELECTRICAL
340/500 CONDITION RESPONSIVE INDICATING SYSTEM
340/531 .With particular coupling link
340/539.1 ..Radio

10655554_CLSTITLES

3 340/903 (0 OR, 3 XR)
 Class 340 : COMMUNICATIONS: ELECTRICAL
 340/901 EXTERNAL CONDITION VEHICLE-MOUNTED INDICATOR O

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ALARM
 340/902 .Transmitter in another vehicle (e.g.,
 emergency vehicle)
 340/903 ..Relative distance between vehicles (e.g.,
 collision alert)

3 340/904 (3 OR, 0 XR)
 Class 340 : COMMUNICATIONS: ELECTRICAL
 340/901 EXTERNAL CONDITION VEHICLE-MOUNTED INDICATOR O

R

ALARM
 340/904 .Transmitter in one vehicle only

3 342/128 (1 OR, 2 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/118 DETERMINING DISTANCE
 342/128 .With frequency modulation

3 342/153 (1 OR, 2 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/147 DETERMINING DIRECTION
 342/149 .Monopulse
 342/153 ..With particular antenna or waveguide

3 342/157 (2 OR, 1 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/147 DETERMINING DIRECTION
 342/157 .With frequency or phase steering

3 342/162 (0 OR, 3 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/159 CLUTTER ELIMINATION
 342/160 .MTI (Moving target indicator)
 342/162 ..Digital

3 342/195 (1 OR, 2 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/175 WITH PARTICULAR CIRCUIT
 342/195 .Digital processing

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- 3 342/196 (1 OR, 2 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/175 WITH PARTICULAR CIRCUIT
 342/195 .Digital processing
 342/196 ..Fast fourier transform (FFT)
- 3 342/368 (0 OR, 3 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/350 DIRECTIVE
 342/368 .Including a steerable array
- 3 342/70 (2 OR, 1 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/61 RETURN SIGNAL CONTROLS EXTERNAL DEVICE
 342/70 .Radar mounted on and controls land vehicle
- 3 343/767 (0 OR, 3 XR)
 Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS
 343/700R ANTENNAS
 343/767 .Slot type
- 3 343/846 (1 OR, 2 XR)
 Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS
 343/700R ANTENNAS
 343/846 .With grounding structure (including
 counterpoises)
- 3 455/327 (3 OR, 0 XR)
 Class 455 : TELECOMMUNICATIONS
 455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY
 CONVERTER
 455/313 .Frequency modifying or conversion
 455/323 ..Particular frequency conversion structure or
 circuitry
 455/325 ...Including distributed electrical parameter
 structure
 455/326With balanced mixer
 455/327Stripline
- 3 455/330 (0 OR, 3 XR)
 Class 455 : TELECOMMUNICATIONS
 455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY
 CONVERTER
 455/313 .Frequency modifying or conversion

10655554_CLSTITLES

- 455/323 ..Particular frequency conversion structure or circuitry
- 455/325 ...Including distributed electrical parameter structure
- 455/330With nonlinear impedance (e.g., diode)

- 2 89/1.56 (0 OR, 2 XR)
 - Class 089 : ORDNANCE
 - 89/1.51 BOMB, FLARE AND SIGNAL DROPPING
 - 89/1.56 .Electrical and radio releases and sighting

- 2 89/1.819 (0 OR, 2 XR)
 - Class 089 : ORDNANCE
 - 89/1.8 ROCKET LAUNCHING
 - 89/1.819 .Having guide means

- 2 250/349 (0 OR, 2 XR)
 - Class 250 : RADIANT ENERGY
 - 250/336.1 INVISIBLE RADIANT ENERGY RESPONSIVE ELECTRIC SIGNALLING
 - 250/338.1 .Infrared responsive
 - 250/349 ..Plural signalling means

- 2 257/775 (0 OR, 2 XR)
 - Class 257 : ACTIVE SOLID-STATE DEVICES
 - 257/734 COMBINED WITH ELECTRICAL CONTACT OR LEAD
 - 257/773 .Of specified configuration
 - 257/775 ..Varying width or thickness of conductor

- 2 318/586 (1 OR, 1 XR)
 - Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS
 - 318/560 POSITIONAL SERVO SYSTEMS (E.G., SERVOMECHANISMS)
 - 318/580 .Vehicular guidance systems with single axis control
 - 318/586 ..Yaw control

- 2 324/326 (1 OR, 1 XR)
 - Class 324 : ELECTRICITY: MEASURING AND TESTING
 - 324/323 OF GEOPHYSICAL SURFACE OR SUBSURFACE IN SITU
 - 324/326 .For small object detection or location

- 2 324/76.82 (2 OR, 0 XR)
 - Class 324 : ELECTRICITY: MEASURING AND TESTING
 - 324/76.11 MEASURING, TESTING, OR SENSING ELECTRICITY, PE

- R
 - SE
 - 324/76.77 .Phase comparison (e.g., between cyclic pulse

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voltage and sinusoidal current, etc.)

324/76.82 ..Digital output

2 327/195 (0 OR, 2 XR)

Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR
DEVICES, CIRCUITS, AND SYSTEMS

327/100 SIGNAL CONVERTING, SHAPING, OR GENERATING

327/185 .Particular stable state circuit (e.g.,
tristable, etc.)

327/195 ..Negative resistance diode having "N"-shape
characteristic on I-V plot (e.g., tunnel di

ode, backward

diode, etc.)

2 330/286 (2 OR, 0 XR)

Class 330 : AMPLIFIERS

330/250 WITH SEMICONDUCTOR AMPLIFYING DEVICE (E.G.,
TRANSISTOR)

330/286 .Including distributed parameter-type coupling

2 330/297 (0 OR, 2 XR)

Class 330 : AMPLIFIERS

330/250 WITH SEMICONDUCTOR AMPLIFYING DEVICE (E.G.,
TRANSISTOR)

330/297 .Including particular power supply circuitry

2 333/1.1 (1 OR, 1 XR)

Class 333 : WAVE TRANSMISSION LINES AND NETWORKS

333/1 PLURAL CHANNEL SYSTEMS

333/1.1 .Nonreciprocal gyromagnetic type (e.g.,
circulators)

2 333/117 (0 OR, 2 XR)

Class 333 : WAVE TRANSMISSION LINES AND NETWORKS

333/1 PLURAL CHANNEL SYSTEMS

333/100 .Having branched circuits

333/117 ..Including hybrid-type network

2 333/161 (0 OR, 2 XR)

Class 333 : WAVE TRANSMISSION LINES AND NETWORKS

333/24R COUPLING NETWORKS

333/156 .Delay lines including long line elements

333/161 ..Planar line structure (e.g., stripline)

2 333/164 (1 OR, 1 XR)

Class 333 : WAVE TRANSMISSION LINES AND NETWORKS

333/24R COUPLING NETWORKS

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333/156 .Delay lines including long line elements
 333/164 ..Control of delay with semiconductive means

2 333/165 (2 OR, 0 XR)
 Class 333 : WAVE TRANSMISSION LINES AND NETWORKS
 333/24R COUPLING NETWORKS
 333/165 .Frequency or time domain filters and delay
 lines utilizing charge transfer devices

2 333/17.2 (2 OR, 0 XR)
 Class 333 : WAVE TRANSMISSION LINES AND NETWORKS
 333/17.1 AUTOMATICALLY CONTROLLED SYSTEMS
 333/17.2 .Limiting of amplitude

2 333/246 (1 OR, 1 XR)
 Class 333 : WAVE TRANSMISSION LINES AND NETWORKS
 333/245 LONG LINE ELEMENTS AND COMPONENTS
 333/246 .Strip type

2 340/932.2 (2 OR, 0 XR)
 Class 340 : COMMUNICATIONS: ELECTRICAL
 340/932.2 VEHICLE PARKING INDICATORS

2 341/120 (0 OR, 2 XR)
 Class 341 : CODED DATA GENERATION OR CONVERSION
 341/120 CONVERTER CALIBRATION OR TESTING

2 342/104 (1 OR, 1 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/104 DETERMINING VELOCITY

2 342/112 (0 OR, 2 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/104 DETERMINING VELOCITY
 342/109 .Combined with determining distance
 342/112 ..With plural frequencies transmission

2 342/125 (0 OR, 2 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/118 DETERMINING DISTANCE
 342/125 .With remote cooperating station

2 342/147 (1 OR, 1 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES

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DETERMINING DIRECTION

342/147

2 342/149 (0 OR, 2 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
342/147 DETERMINING DIRECTION
342/149 .Monopulse

2 342/154 (0 OR, 2 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
342/147 DETERMINING DIRECTION
342/149 .Monopulse
342/154 ..Combined with beam steering

2 342/159 (1 OR, 1 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
342/159 CLUTTER ELIMINATION

2 342/16 (1 OR, 1 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
342/13 RADAR EW (ELECTRONIC WARFARE)
342/16 .ECCM (Electronic counter-countermeasures,
i.e., antijamming)

2 342/160 (0 OR, 2 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
342/159 CLUTTER ELIMINATION
342/160 .MTI (Moving target indicator)

2 342/165 (1 OR, 1 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
342/165 TESTING OR CALIBRATING OF RADAR SYSTEM

2 342/174 (2 OR, 0 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES
342/165 TESTING OR CALIBRATING OF RADAR SYSTEM
342/173 .By monitoring
342/174 ..Calibrating

2 342/175 (1 OR, 1 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES

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342/175 WITH PARTICULAR CIRCUIT

2 342/192 (0 OR, 2 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES

342/175 WITH PARTICULAR CIRCUIT

342/192 .Spectrum analysis

2 342/193 (0 OR, 2 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES

342/175 WITH PARTICULAR CIRCUIT

342/192 .Spectrum analysis

342/193 ..Harmonic

2 342/37 (2 OR, 0 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES

342/36 AIR TRAFFIC CONTROL

342/37 .Secondary Surveillance Radar (SSR) or Air
Traffic Control Radar Beacon System (ATCRBS

)

2 342/373 (2 OR, 0 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES

342/350 DIRECTIVE

342/368 .Including a steerable array

342/373 ..With a matrix

2 342/379 (1 OR, 1 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES

342/350 DIRECTIVE

342/378 .Utilizing correlation techniques

342/379 ..Side lobe elimination

2 342/381 (1 OR, 1 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES

342/350 DIRECTIVE

342/378 .Utilizing correlation techniques

342/379 ..Side lobe elimination

342/381 ...Difference of each antenna channel signal

2 342/4 (1 OR, 1 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
AND DEVICES

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342/1 RADIO WAVE ABSORBER
342/4 .With particular geometric configuration

2 342/44 (1 OR, 1 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
342/42 RADAR TRANSPONDER SYSTEM
342/44 .Unique identity

2 342/444 (0 OR, 2 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
342/350 DIRECTIVE
342/385 .Beacon or receiver
342/417 ..Direction-finding receiver only
342/444 ...Having plural receivers

2 342/6 (1 OR, 1 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
342/5 RADAR REFLECTOR
342/6 .With modulation

2 342/80 (0 OR, 2 XR)
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
342/73 RETURN SIGNAL CONTROLS RADAR SYSTEM
342/74 .Antenna control
342/75 ..Physical orientation
342/80 ...Monopulse

2 343/701 (2 OR, 0 XR)
Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS
343/700R ANTENNAS
343/701 .Having electric space discharge device

2 343/708 (1 OR, 1 XR)
Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS
343/700R ANTENNAS
343/705 .With aircraft
343/708 ..Aircraft part of active antenna or vice vers

a

2 343/742 (0 OR, 2 XR)
Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS
343/700R ANTENNAS
343/741 .High frequency type loops

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343/742 ..Plural

2 343/754 (1 OR, 1 XR)

Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS

343/700R ANTENNAS

343/753 .With spaced or external radio wave refractor
(e.g., lens)

343/754 ..With scanning, sweeping, or orienting

2 343/872 (0 OR, 2 XR)

Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS

343/700R ANTENNAS

343/872 .With housing or protective covering

2 343/909 (2 OR, 0 XR)

Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS

343/700R ANTENNAS

343/907 .Antenna components

343/909 ..Refracting means and radio wave energy
filters (e.g., lenses and polarizers)

2 349/139 (0 OR, 2 XR)

Class 349 : LIQUID CRYSTAL CELLS, ELEMENTS AND SYSTEMS

349/56 PARTICULAR STRUCTURE

349/84 .Having significant detail of cell structure
only349/139 ..Electrode or bus detail (i.e., excluding
supplemental capacitor and transistor elect

rodes)

2 349/202 (1 OR, 1 XR)

Class 349 : LIQUID CRYSTAL CELLS, ELEMENTS AND SYSTEMS

349/193 LIQUID CRYSTAL OPTICAL ELEMENT

349/201 .Liquid crystal diffraction element

349/202 ..For beam steering

2 367/909 (0 OR, 2 XR)

Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE
SYSTEMS AND DEVICES

367/909 COLLISION AVOIDANCE

2 385/14 (0 OR, 2 XR)

Class 385 : OPTICAL WAVEGUIDES

385/14 INTEGRATED OPTICAL CIRCUIT

2 434/2 (0 OR, 2 XR)

Class 434 : EDUCATION AND DEMONSTRATION

434/1 DETECTION OR RANGE DETERMINATION OF DISTANT

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OBJECT BY APPARATUS USING SENSOR OF ELECTR

OMAGNETIC OR

SOUND ENERGY

434/2

.Radar

2 455/78 (0 OR, 2 XR)

Class 455 : TELECOMMUNICATIONS

455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.

TRANSCEIVER)

455/78

.With transmitter-receiver switching or
interaction prevention

2 708/816 (0 OR, 2 XR)

Class 708 : ELECTRICAL COMPUTERS: ARITHMETIC PROCESSING
AND CALCULATING

708/800 ELECTRICAL ANALOG CALCULATING COMPUTER

708/801 .Particular function performed

708/813 ..Correlation or convolution

708/816 ...Optical

ability 1
 able 1
 about 10
 above 2
 abstract 1
 accompanying 1
 according 27
 accordingly 1
 accuracy 6
 accurate 1
 achieve 2
 active 2
 adiameter 1
 adjacent 1
 advantage 1
 advantages 1
 aesa 29
 aesas 8
 agard 1
 ago 1
 airborne 1
 aitay 1
 al 2
 aliows 1
 all 8
 alla 2
 along 1
 amp 3
 amplifier 2
 amplifying 3
 amplitude 2
 an 31
 analysis 1
 and 181
 angle 5
 angles 3
 angular 26
 ann 2
 another 6
 antenna 21
 antennas 2
 antennw 1
 any 12
 ap 3
 applebua 1
 application 3
 applications 2
 approaches 1

appropriately 1
april 1
arborl 1
are 10
arranged 1
array 19
arrays 7
art 1
as 23
asic 1
assembled 1
at 14
august 2
aviation 1
azimuth 13
back 1
background 1
balance 1
banchmark 1
band 30
bandwidth 3
bank 1
base 1
baseband 1
based 3
be 13
beam 34
beamforming 1
beams 12
beamsteering 2
because 3
becomes 1
been 1
before 1
behind 4
being 3
bend 1
better 7
between 9
bf 1
bi 1
bistatic 1
block 25
blocks 1
both 1
bottom 1
brief 1
brit 3

but 6
by 24
caldwell 2
can 12
captured 2
carrier 5
carry 1
carrying 1
case 1
cases 1
center 7
ch 1
change 1
characteristic 3
chip 3
chirp 3
ci 3
circle 2
circuit 4
circuits 1
circular 2
circulator 2
circulators 4
cited 1
citizen 1
civil 1
clatter 2
cluster 1
clutter 1
cm 2
coef 9
cohnected 1
collect 2
collected 1
column 11
columns 2
combine 1
combined 1
combiner 7
combiners 1
come 2
comes 2
coming 7
commercial 1
communication 1
compared 1
comparison 5
complete 1

complicated 1
composed 1
comprises 1
comprising 6
comptising 1
computer 1
conceivable 1
concerned 1
concrete 1
conf 4
configuration 1
conformal 7
conical 1
connected 55
connqcted 1
consecutive 2
consequence 2
consider 3
considered 1
considering 1
consists 4
constant 3
construed 1
continuing 1
continuous 2
continuously 2
control 1
controlled 4
conventional 9
convey 1
coordinates 1
corresponds 1
cos 2
cost 3
costm 1
cottony 1
could 2
couple 6
coupled 2
coupler 10
couplers 2
coverage 2
creates 2
creating 3
cross 8
data 5
davies 5
december 2

decibels 2
 decode 1
 defense 1
 degradation 1
 degrees 3
 deita 2
 delay 7
 delivered 1
 delta 6
 deltaf 6
 dependable 2
 depending 2
 depends 2
 depicts 2
 depqndant 1
 described 4
 describing 1
 description 3
 design 1
 designat 1
 designated 4
 designed 1
 designs 1
 detailed 1
 detecting 3
 determine 1
 dev 1
 developing 1
 device 1
 devices 3
 diagram 7
 diameter 3
 difference 5
 differences 2
 different 16
 difficult 1
 digital 1
 digitally 1
 direction 10
 directional 13
 directions 1
 diredivity 1
 disadvantage 1
 disciosed 1
 disclosure 2
 discovery 1
 discriminate 1
 dispersively 2

displaced 4
 displacement 3
 distinguish 2
 distributed 1
 diver 2
 divider 23
 dividers 8
 divides 2
 do 1
 does 1
 dollars 1
 double 1
 down 1
 drawing 2
 drawings 2
 duration 14
 during 4
 each 45
 easily 1
 echo 5
 edgar 1
 effect 1
 effectiveness 1
 ei 1
 electric 1
 electrica 1
 electrical 1
 electrically 47
 electroically 1
 electromagnetic 3
 electron 1
 electronic 9
 electronically 10
 electronicply 1
 electronics 1
 eledrically 1
 element 12
 elements 26
 elementvsignal 1
 elevation 12
 embodied 1
 embodiment 13
 embodiments 13
 enable 2
 enables 2
 energy 5
 eng 1
 engineering 1

enhance 2
entitled 3
envelope 1
equa 1
equals 3
equation 2
equations 4
et 3
etc 3
evaluation 1
example 1
excitation 2
excited 4
exempla 1
exemplary 10
expected 1
experimental 1
extensively 1
extra 2
extremely 1
fa 1
fall 1
fas 1
fast 7
feature 2
features 1
feed 2
fft 2
field 1
fig 36
figure 1
filed 1
filter 4
filtering 2
filters 2
finally 1
finder 1
finding 2
first 2
flat 7
flexible 3
fm 17
fodh 2
fog 1
for 40
form 2
forming 5
forms 1

fourier 2
fr 1
frequency 23
from 19
fsintxl 1
fujii 1
full 1
fully 2
function 7
fundion 1
future 1
gain 1
gating 1
generally 1
generat 1
generate 3
generates 1
generating 2
generation 2
generator 9
generators 2
genetators 1
get 6
ghz 1
gitzendanner 1
given 4
gives 1
gmund 1
go 2
goes 5
great 1
greater 6
greenwood 1
ground 2
gtmosar 1
half 4
has 6
have 2
haykiw 1
he 1
height 2
helical 1
hendersol 1
herein 5
hereinafter 1
high 16
hop 1
horizohtal 1

howells 1
however 1
hpa 2
hpa 6
http 1
hundred 1
hybrid 13
hybrids 1
hz 1
iambda 1
iarge 1
iast 1
identica 1
identical 9
ieast 1
iee 3
ieee 2
ieft 1
iess 1
iets 1
if 2
ihe 1
iight 1
iimit 1
iimited 1
ilinear 2
illuminated 2
illustrate 1
illustrates 6
implementation 1
important 2
impossibility 1
improve 1
improved 1
improving 1
in 57
inadequate 1
includes 7
including 1
incorporated 4
increased 1
increasing 1
incremental 1
independent 1
indicate 1
individually 1
inexpensive 2
information 2

input 19
inside 2
int 1
integrators 2
interest 1
into 4
inveder 1
invention 42
inventor 1
inverter 2
iocal 2
ionger 1
iot 1
iow 2
iowest 1
ir 1
ire 2
is 73
isin 1
issued 1
it 4
itphased 1
its 3
itude 1
jamming 3
januarpfefbruary 1
january 1
johnkono 1
jones 1
june 1
kay 1
keeps 1
kendell 1
key 1
kilometers 1
known 1
kummer 1
langenwalter 1
last 1
lb 1
least 1
lectrically 1
led 1
left 1
less 1
let 1
letting 1
lewis 1

lf 1
lhe 1
ligh 1
lighting 1
limit 1
linear 1
lity 1
lloo 1
lly 1
ln 2
lna 4
lnas 5
lncorporating 1
lnst 1
location 1
longer 1
low 1
lower 1
lowest 1
ly 1
magnitude 3
main 5
manager 1
manufacture 1
many 4
march 1
mass 2
matched 2
may 3
mediated 1
me 1
means 6
measured 1
measurement 1
mentioned 1
meters 1
method 2
mhz 2
michigap 1
military 1
missile 1
missiles 1
mit 1
mitting 1
mixer 10
mixers 16
mixes 1
mixing 2

mixtures 1
mode 7
moderate 1
modern 1
modification 1
modulated 4
modulation 4
modules 1
moment 1
moments 1
monostatic 1
more 6
mosar 1
most 1
movement 2
moving 1
much 1
multibeam 4
multichannel 2
multifunctional 4
multifundional 1
multiplex 2
multiplexing 1
multipod 4
multiport 10
must 2
narrow 16
national 1
nbs 1
need 4
neeown 1
negative 2
new 3
newberg 1
newtown 1
next 2
nicodimus 1
niformly 1
nignal 1
no 10
nobuo 1
noise 8
non 2
nonuniform 4
nonuniformly 1
normalized 3
not 3
note 3

novel 2
 november 2
 now 2
 ns 1
 number 3
 nyquist 1
 objects 2
 observe 1
 obtained 1
 obvious 1
 october 1
 of 275
 off 1
 offset 6
 ofthe 1
 om 1
 omega 8
 omegao 3
 omera 1
 omeraat 1
 on 9
 one 25
 only 4
 operate 1
 operation 3
 operational 1
 or 73
 order 9
 org 1
 orwpablication 1
 oscillator 4
 oscillators 2
 other 11
 outpgt 1
 outpus 1
 output 36
 outputs 5
 over 1
 pa 2
 pad 2
 padicularly 1
 page 14
 palmer 1
 paper 2
 parallel 1
 particular 1
 pat 4
 patent 5

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 pattern 2
 patterns 1
 pdf 1
 peak 4
 pedormance 1
 pedorming 1
 perform 1
 performance 3
 performed 1
 performnnce 1
 perpendicular 1
 phase 33
 phased 1
 phenomenon 1
 phi 1
 pi 3
 pig 1
 planned 1
 plenty 6
 plot 2
 plur 1
 plurality 39
 plus 2
 plvrality 1
 pod 7
 pods 3
 port 21
 ports 7
 position 12
 positioning 1
 positive 1
 possibility 1
 possible 4
 power 30
 preferred 1
 present 30
 presented 3
 presvnt 1
 prior 3
 pro 1
 proc 3
 procedur 1
 procedure 1
 proceedings 1
 processing 10
 processor 2
 produce 1

producing 1
programs 1
progressive 1
propag 1
propagating 2
proper 1
propodional 1
proportional 2
proposed 3
provide 4
provided 2
provides 1
providing 20
publicatio 1
publications 1
puise 1
pulse 30
purpose 1
quite 1
ra 2
radar 57
radars 7
radford 1
radial 1
radiated 6
radiates 1
radiating 22
radiation 2
radiator 2
radio 2
ramp 1
range 30
ranging 1
rapid 2
raster 1
rate 2
rather 1
ratio 5
reaches 1
realizations 1
realize 2
reating 1
receive 9
received 11
receiver 4
receiving 7
recognize 1
recor 1

recovering 1
redeived 1
reference 6
references 1
reflected 3
reflector 1
rejection 1
relates 2
relative 3
remarkable 1
repetition 2
replica 8
require 1
required 13
requires 1
res 1
research 1
residing 1
resistive 11
resistors 1
resolution 27
ret dian 1
return 5
returning 1
reverse 1
reverses 1
rf 25
rfi 1
rflood 1
rfm 1
rfo 7
rfz 3
right 3
ring 15
rise 2
roughly 1
row 9
rows 3
rs 1
said 134
sake 1
salient 1
same 5
sampling 1
scan 17
scanned 6
scanning 20
scanningy 2

scans 1
scattered 1
schematic 1
science 1
scientists 1
scnning 3
scope 1
scrmning 1
search 1
second 4
section 1
sector 5
security 1
see 1
sensing 2
sensitivity 2
separate 3
separated 2
separation 2
september 1
set 2
several 5
shanks 1
shape 5
shift 1
shifted 4
shifter 9
shifters 4
shifts 1
shigetaka 1
shihers 1
ship 1
should 1
show 1
showing 2
shown 19
shows 2
sidelobes 1
signaf 1
signal 50
signals 60
silicon 2
similar 3
simple 2
simplicity 2
simplified 2
simultaneously 2
sin 3

since 1
single 2
sinlm 1
sint 1
size 2
sled 1
so 7
solid 1
some 5
sophisticated 1
source 10
space 7
spaceborne 1
spaced 2
spacing 1
spatially 1
special 1
spectrum 8
speed 1
spreading 1
ssing 1
stable 2
stack 1
stages 1
stalo 8
starting 1
state 1
states 1
stationary 4
steer 4
steering 22
stevensow 1
stopping 1
stops 1
straight 1
strategies 1
strategy 3
structure 2
stst 1
stubbs 1
studied 1
studies 1
sub 1
substantially 1
subsystem 1
such 1
sum 3
summarized 1

summary 1
support 1
suppose 1
swing 2
switch 4
symp 2
sysstea 3
system 19
systemk 1
systems 4
systemns 1
ta 2
takagi 1
tapering 1
target 18
targets 8
tau 1
tbenm 1
td 1
technical 1
technique 5
techniques 5
technologies 1
tei 1
terrio 1
th 2
than 15
that 20
the 310
them 1
then 1
theory 1
there 8
these 3
theta 22
thinned 1
this 18
thorough 1
those 1
three 1
through 8
throujh 1
thus 1
time 19
tir 1
tloo 3
to 159
tow 1

towards 1
tracing 5
track 1
tracking 10
traditional 3
trails 1
train 1
trains 1
tran 1
trans 1
transform 2
transmit 13
transmitted 6
transmitting 5
trough 2
true 3
tscanning 1
tucker 3
tuning 2
tw 1
two 8
type 4
ucountermeasures 1
ucsusa 1
ultra 15
ultta 1
underwater 1
unidirectional 1
uniform 4
union 1
unit 1
united 1
university 1
until 2
uon 2
up 2
us 6
use 2
used 4
using 3
usually 1
utiizes 1
utilized 1
utilizing 1
valing 1
variable 1
variation 3
variations 5

vary 1
vc 6
vco 11
vcos 6
vcrs 1
velocity 3
vertical 1
very 4
video 2
vidual 1
view 1
villeneuve 1
virtual 1
vital 1
vo 1
voitagecolumn 1
vol 10
volman 2
voltage 40
voltagecolumn 6
voltages 3
voltpge 1
was 1
waveform 15
wavelength 17
wavelengths 1
way 2
we 1
well 1
welsby 2
wher 1
where 4
which 7
while 2
whole 1
wicks 2
wide 18
wideband 1
widely 2
will 2
wilsol 1
with 52
within 3
without 6
worsen 2
would 1
written 1
xt 1

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years 1
yields 1
yo 1
zooz 1